

**(57) Abstract**

The invention relates to a method for reducing interference in radio transmitters with feedback from the antenna end to the baseband side and to a transmitter applying the said method. In a Cartesian loop formed for the linearization of a transmitter, the levels of baseband input signals ( $s_{I2}$ ,  $s_{Q2}$ ) to a modulator are measured and the attenuation of a level control unit (210) following the modulator (203) is adjusted until the modulator input signal levels are sufficiently above the noise level. The adjustment may be carried out as a one-time procedure during the manufacturing process or repeatedly during the operation of the device. By means of the invention, the noise level of the output signal of a linearized transmitter can be made lower than in known transmitters. Moreover, the transmitter may utilize a cheaper and, from the point of view of manufacturing, easier 4modulator than known transmitters.

Fig. 2